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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/573,035	03/22/2006	Shigeki Ito	062258	4409	
	834 7590 06/09/2009 ÆSTERMAN, HATTORI, DANIELS & ADRIAN, LLP			EXAMINER	
1250 CONNECTICUT AVENUE, NW			ROBINSON, LAUREN E		
SUITE 700 WASHINGTON, DC 20036			ART UNIT	PAPER NUMBER	
			1794		
			MAIL DATE	DELIVERY MODE	
			06/09/2009	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)					
Office Action Comments	10/573,035	ITO ET AL.					
Office Action Summary	Examiner	Art Unit					
	LAUREN ROBINSON	1794					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence ad	ldress				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1)⊠ Responsive to communication(s) filed on <u>06 M</u>	arch 2000						
·= · · · · · · · · · · · · · · · · · ·	action is non-final.						
· <u> </u>		coaution as to the	morito io				
	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
closed in accordance with the practice under £	x parte Quayle, 1955 C.D. 11, 45	3 O.G. 213.					
Disposition of Claims							
4)⊠ Claim(s) <u>1,2 and 4-7</u> is/are pending in the appli	cation.						
4a) Of the above claim(s) <u>5-7</u> is/are withdrawn t							
5) Claim(s) is/are allowed.	· · · · · · · · · · · · · · · · · · ·						
6)⊠ Claim(s) is/are rejected.							
7) Claim(s) is/are rejected.							
· · · · — · ·							
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers							
9)☐ The specification is objected to by the Examine	r.						
10)⊠ The drawing(s) filed on <u>22 March 2006</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
	animor. Note the attached emoc	, todor or form i	10 102.				
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of the prior application from the prior action for a list of the prior acti	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National	Stage				
Attachment(s)							
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) ∐ Interview Summary Paper No(s)/Mail Da						
2)	5) Notice of Informal P						
Paper No(s)/Mail Date	6) Other:						

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1-2 and 4 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Claims 1 and 2 include the limitation that the gas (A) is organometallic compound-free gas. However, the examiner notes that there was no clear recitation of the gas being organometallic compound-free in the original disclosure and as such, the newly added limitation is new matter.

Claims 1-2 and 4 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for treating the substrate surface with the atmospheric plasma, does not reasonably provide enablement for doing so without forming any layer on said surface. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to obtain the invention commensurate in scope with these claims.

For example, it is well known in the art that even when a substrate is placed in an ambient gas environment, especially applicants' plasma gas, gas molecules, etc. will

contact the substrate surface corresponding to a "layer". As the applicants have not provided in their specification any discussion regarding cleaning the substrate surface, etc. after surface treatment, the examiner notes that one of ordinary skill would expect the molecules to still be present and therefore, a layer to be present. For the above reasons, the applicants' disclosure does not provide enablement for their gas treatment not forming a layer on said substrate as claimed in claims 1 and 2.

Due to claim 4 being dependent on claim 2 as rejected above, claim 4 is also rejected.

Response to Arguments

Applicant's arguments filed March 6, 2009 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

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extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LAUREN ROBINSON whose telephone number is (571)270-3474. The examiner can normally be reached on Monday to Thursday 6am to 4pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jennifer McNeil can be reached on 571-272-1540. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/LAUREN ROBINSON/ Examiner, Art Unit 1794

/JENNIFER MCNEIL/ Supervisory Patent Examiner, Art Unit 1794